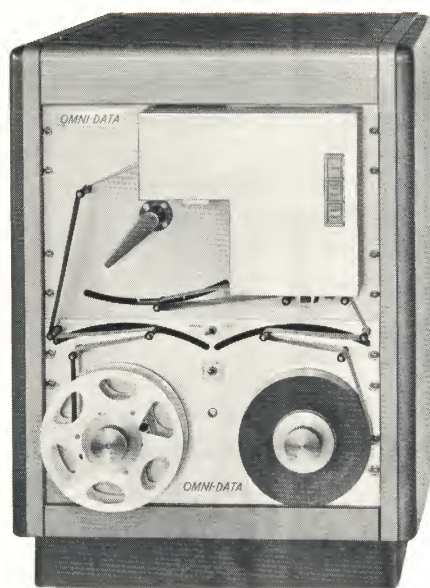# omni-data

electrostatic
ALPHANUMERIC STRIP PRINTER

OMNI-DATA Alphanumeric Strip Printer, Model ATR-7, and a section of ¼-inch paper tape as recorded thereon.

Where on-line printout of inquiry data is a requirement, or in program checkout and readout of memory and register contents, OMNI-DATA offers this new high-speed real-time electrostatic printer.

The OMNI-DATA Strip Printer, Model ATR-7, records alphanumeric characters in a single line on ¼-inch paper tape at 600 characters a second, or up to four lines simultaneously on 1-inch tape at 2,400 characters a second.

Instead of mechanical impact printing, this printer employs the OMNI-DATA electrostatic recording process to deposit and fix visible black characters on the tape.

Incoming information to be recorded enters on up to six parallel data channels in any convenient code configuration to describe the approximately 64 available printed characters. The electronics of the device selects the alphanumeric symbol represented by the incoming data, and re-codes it for serial 5x7-matrix printing.

The new OMNI-DATA Printer offers unsurpassed performance in two modes under the complete control of electrical inputs: Continuous mode, without starting and stopping at each character, for highest speed; and asynchronous mode, for single-character rates to 60 a second. Obvious advantages of both modes over discrete mechanical printing are greatly increased speed and reliability, and reduced noise.

omni-data

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electronic equipment BORG WARNER

SPECIFICATION

TAPE AND MECHANICAL

TAPE SIZES: ¼″ for single-line printing, up to 1″ for four-line printing.

TAPE SPEEDS: Any discrete synchronous speed up to 600 characters per second selected by pre-set pulley-and-belt arrangement, and asynchronously to 60 characters per second.

START TIME: 3 milliseconds maximum.

STOP TIME: 1 millisecond maximum.

PAPER HANDLING: Compatible with OMNI-DATA RS-series reelers.

FIXING: Permanent fixing of data.

CHARACTER SPACING: 10 characters per inch longitudinally.
4 characters per inch transversely.

- Non-impact printing eliminates mechanical devices
- High reliability over long time at high speeds
- Visible characters on opaque paper tape

CONTROLS AND INDICATORS

Two illuminated control switches and an alternate-action indicator are provided:

1. Power on-off switch—illuminates when power is on.
2. Start-stop switch—illuminates for either condition.
3. Load Tape and Ready switch—Tape-drive mechanism is disengaged to facilitate tape loading. Illuminated indicator shows when recorder is ready for operation.

- Minimum maintenance
- Simple, complete controls

ELECTRICAL

INPUT SIGNALS:

1. Code—Any code up to 6 bits, plus sprocket for synchronizing.
2. Level— −12v from 10k-ohm source for One.
      0v from any source for Zero.
3. Width—20 microseconds.

ELECTRICAL CONTROLS:

1. −6 to −12-volt signal on each of two lines, one for start and one for stop.
2. Closure of contacts provided also initiates alternate start and stop.

- Wide input-signal range assures reliability of recording and reading
- Compatible with all OMNI-DATA tape reelers

GENERAL

POWER: 115 volts ±10%, 60 cps, single phase.

DIMENSIONS: 19″ W x 12¼″ high x 17″ deep; 3″ max. projection from front panel.
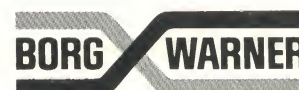
WEIGHT: 70 pounds.

OPTIONS: Multiple-line printing, simultaneous recording of coded character with alphanumeric symbol.

- Compact and clean
- Lightweight
- Shielded ball bearings throughout

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